

2SD1651C

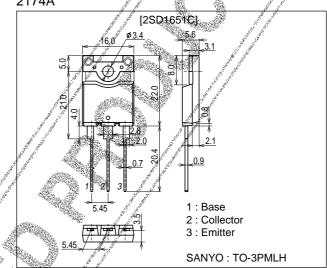
Color TV Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage(VCBO=1500V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

Package Dimensions

unit : mm 2174A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO} /	1500	V
Collector-to-Emitter Voltage	VCEØ /	800	V
Emitter-to-Base Voltage	V _E BQ /	6	V
Collector Current		6	Α
Collector Current (Pulse)	//CP	15	Α
Collector Dissipation	N N N N N N N N N N N N N N N N N N N	3.0	W
	PC Tc=25%C	60	W
Junction Temperature		150	°C
Storage Temperature	Tstg /	-55 to +150	°C

Electrical Characteristics at Ta=25°C

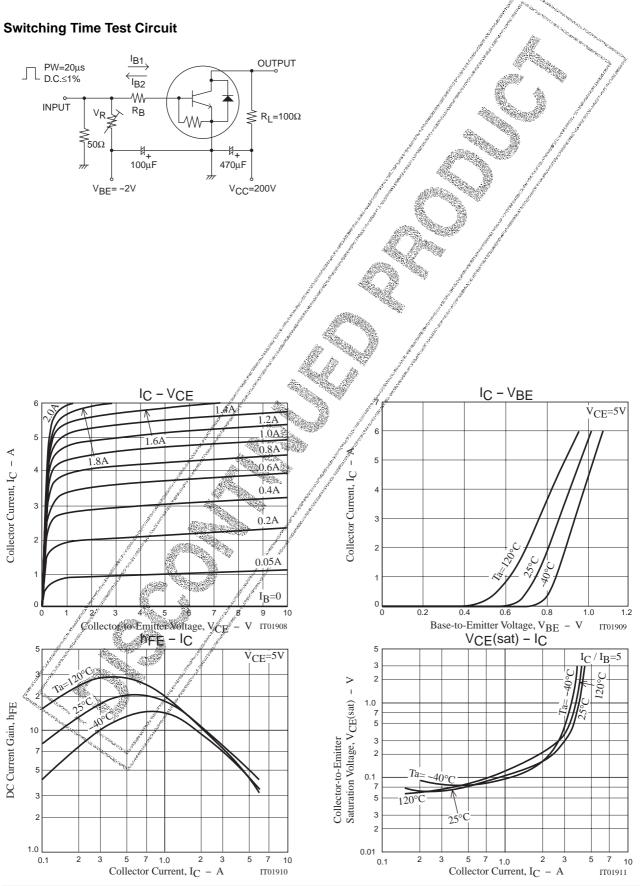
Parameter	Symbol	Conditions	Ratings			Unit
1 diameter			min	typ	max	Offic
Collector Cutoff Current	ГСВО	√/CB=800V, IE=0			10	μΑ
Collector Cutoff Current	FCES /	/V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	lE₿Ő /	V _{EB} =4V, I _C =0	40		130	mA
DC Current Gain	h#E#	VCE=5V, IC=0.5A	10			
DC Current Gain	√h _F £2	V _{CE} =5V, I _C =3.5A	5		8	
Collector-to-Emitter Saturation Voltage	√VCE(sat)	I _C =3.15A, I _B =0.63A		·	3	V
Base-to-Emitter Saturation Voltage	.√VBE(sat)	IC=3.15A, IB=0.63A			1.5	V

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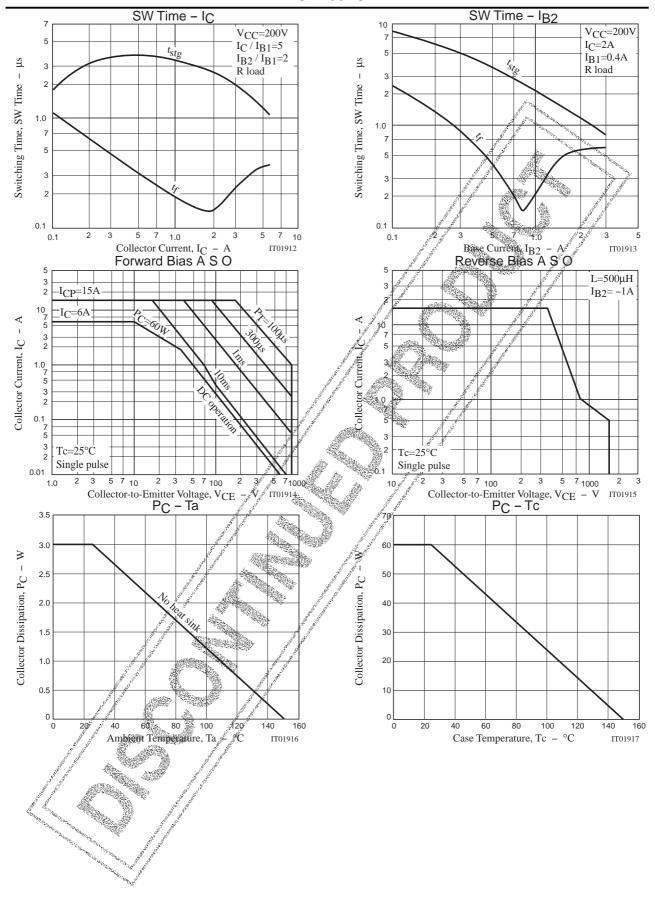
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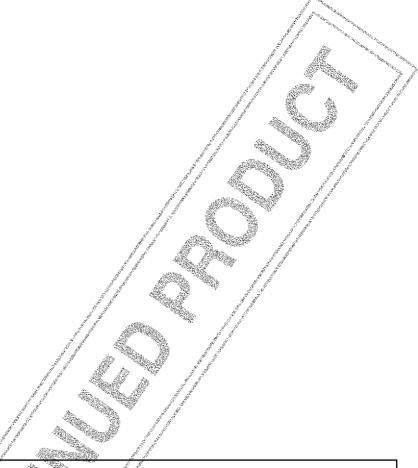
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Parameter	Symbol Conditions	Conditions	Ratings			Unit
Falanielei		min	typ	max	Offic	
Fall Time	tf	I _C =2A, I _{B1} =0.4A, I _{B2} =-0.8A			0.3	μs
Diode Forward Voltage	٧F	IEC =6A			2	V



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